

(Task # 2077)

Bond Release Findings (partial)

Mine Name: Palmer Helsten I.D. No.: S/049/0057
Operator: Integrity Remodeling and Construction, Inc Mineral Ownership: Fee
13752 South 7300 West Surface Ownership: Fee
Herriman, UT 84096 Permit Approved: September 13, 2006

Disturbed Area: 5 Acres**Regraded:** 5 acres**Reseeded:** 5 acres**Acres Bonded:** 5 acres**Acres Proposed for Full Release:** 5 acres**Surety****Amount:** \$1,500**Form:** Cash - Acct. #**Amount Proposed for Release:** \$1,500 + interest**Amount Released:** \$1,500**Amount Remaining:** \$0**Setting and Premining Environment**

This site is located approximately 5 miles south of Elberta, Utah, in Utah County. Prior to mining, the area was open rangeland (undeveloped) along the foothills of the tinctic mountains. The area was relatively flat with no perennial drainages and less than 5% slope. Prior to a wildfire that burned through this area in 2005, the site was dominated by scattered sagebrush and cheatgrass. Even though the area had been seeded (fire mitigation), the vegetation prior to mining was virtually 100% cheatgrass.

Operations

This operation removed building stone (landscape rock) from the top 3-4 feet using a track hoe excavator and loading material into haul trucks. There was no surface facilities at this site. By November of 2006, the desirable rock had been removed and the entire site was reclaimed.

Reclamation

Reclamation consisted of regrading the site (left in a roughened condition to aid in water retention and erosion control) and seeding. The seed mix included a mix a grasses, forbs and shrubs desirable for grazing and wildlife habitat (the exact seed mix is unknown).

Mine Engineering

Public Safety: There are no high walls or other related surface hazards at the site. the area was regraded to approximate original contour (left in roughened condition as described above). There are no hazardous or deleterious materials on site.

Slopes and Highwalls: There are no highwalls or slopes greater than 4h:1v.

Hydrology

Drainages: There are no defined drainage channels on the permit area. Since regrading efforts left a roughened surface, the area is stable with no signs of erosion.

Dams, Impoundments, Trenches, and Pits: There are no dams, impoundments or pits left on the site

Roads: A pre-existing 2-track road to access the property remains on site.

Revegetation

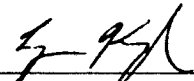
Postmining landuse. The approved post mining land use for this area is grazing and wildlife habitat. Vegetation has established with includes sagebrush, rabbit brush, forage kochia intermediate wheatgrass, thickspike wheatgrass, and sunflower. Cheat grass has not re-invaded the seeded areas.

Revegetation: The area was seeded using broadcast seeding methods in November of 2006. Desirable vegetation has established with a ground cover of 35% (desirable species). Since this area is in the middle of a recent wildfire that burned hundreds of acres (in August of 2005), the premining vegetation cover (or the adjacent area) is not available. Outside the burned area, to the east is irrigated cropland, to the west is transition into a pinyon-juniper woodland (with a marked increase in slope). Currently the area is stable and desirable vegetation has established and would be expected to increase in density. During the recent inspection, sheep were observed grazing in the reclaimed area.

Recommendation

The entire mine site has been reclaimed. All reclamation work required has been completed. The estimated 35% ground cover is believed to be at least 70% of the premining vegetation cover (for this vegetation type, it is expected to have been between 40-50% cover). It is therefore recommended that the Division approve the request for full release in the amount of \$1,500.00 plus interest.

Note: The site was last inspected on May 4, 2009.



Permit Lead

Date